INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/052737

			1017 E1 2004	7 032737						
A. CLASSIFICATION OF SUBJECT MATTER IPC 7 F16L11/08 B29C53/58										
According to International Patent Classification (IPC) or to both national classification and IPC										
B. FIELDS SEARCHED										
Minimum documentation searched (classification system followed by classification symbols)										
IPC 7	7 F16L B29C									
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched										
COCCUMENTATION SEASCHED OTHER MAIN MINIMUM COCCUMENTATION TO THE EXCENT MAIN SUCH COCCUMENTS ARE INCLUDED IN THE NEWS SEASCHED										
Electronic data base consulted during the International search (name of data base and, where practical, search terms used)										
EPO-In		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, 202, 31, 10, 11, 12, 12, 12, 12, 12, 12, 12, 12, 12							
Er O-III	Cer ii a i									
C DOCUME	ENTS CONSIDERED TO BE RELEVANT									
Category °	Relevant to claim No.									
Α	US 2003/183293 A1 (FRASER DANA J)		1-4,20							
	2 October 2003 (2003-10-02)	,	İ							
	paragraphs '0009!, '0011!, '0014!, '0021!, '0022!									
	claims 1,4									
	figures 1-5,8									
Α	US 4 266 579 A (DEISS ET AL)			1,20						
	12 May 1981 (1981-05-12)									
İ	column 2, line 35 - column 3, line figure 2									
Further documents are listed in the continuation of box C. X Patent family members are listed in annex.										
° Special categories of cited documents: °T° later document published after the international filling date										
A document defining the general state of the art which is not considered to be of particular relevance or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention.										
E earlier document but published on or after the international *X* document of particular relevance; the claimed Invention										
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later th	family									
Date of the	actual completion of the international search	Date of mailing of	the international sea	rch report						
26 January 2005 07/02/2005			2005							
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 Authorized officer										
	NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl,	و معامده	olen M							
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Information on patent family members

International Application No
PCT/EP2004/052737

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 2003183293	A1	02-10-2003	BR EP WO	0308717 A 1488154 A1 03083341 A1	04-01-2005 22-12-2004 09-10-2003
US 4266579	Α	12-05-1981	NONE		